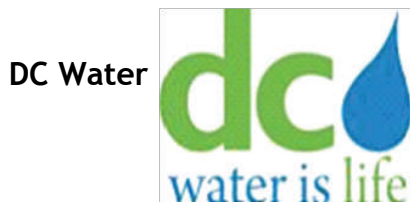


Sponsored by the CBP's  
Scientific & Technical  
Advisory Committee  
(STAC)  
And Wastewater  
Treatment Work Group

Co-sponsored by:



**PURPOSE:** This workshop is addressing 'cutting edge wastewater treatment technologies' - a critical topic in the Chesapeake Bay watershed. This topic is important to the local governments and utilities that operate wastewater plants in the Bay region, as well as to the state and federal agencies that regulate those plants. These plants will have to operate under strict nutrient load caps defined in the Bay Program's TMDL - now and into the future, even as the growth in the Bay watershed continues. It will be important to build these facilities with less infrastructure, operate them using less energy and fewer chemicals, all the while ensuring reliable operations and minimizing nitrogenous GHG emissions.

This workshop is aimed at identifying those cutting edge technologies (focused on Nitrogen) that appear to be viable options, and to begin a dialogue between practitioners, designers, and regulators on how these practices can be successfully implemented in the Bay watershed.

**OUTCOME:** A formal report that summarizes the key findings, provides links to the presentations, and makes recommendations to STAC and the Chesapeake Bay Program Partnership.

**INVITATION-ONLY**  
**RSVP BY MONDAY, APRIL 23<sup>RD</sup>**  
**TO: MATT JOHNSTON**  
**[JOHNSTONMA@SI.EDU](mailto:JOHNSTONMA@SI.EDU)**

*Note: There will also be some additional opportunities to participate via Webinar.*

**"Real World Wastewater  
Technologies Workshop"**  
***Advancing the World We  
Live In - Exploring Cutting  
Edge Wastewater  
Treatment Technologies***

**Wednesday, May 16, 2012**

**Westin Hotel**  
**6631 West Broad Street,**  
**Richmond, Virginia 23230**  
[Westin-Richmond-Hotel](http://Westin-Richmond-Hotel)



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Committee (STAC)

Co-sponsored by:  
DC Water  
HRSD  
MWCOG  
WERF

# “Real World Wastewater Technologies Workshop”

## Workshop Agenda

Wednesday, May 16, 2012

7:30 am Sign-in  
Coffee/Tea

8:00 Welcome, Introductions,  
Workshop Objectives

8:15 Microbial Nitrogen  
Transformations -  
*Kartik Chandran,  
Columbia University*

9:00 Facilitated Discussion

10:00 Break

10:15 Nitrogen Removal:  
1.0 to 3.0

A. WERF Stream  
Deammonification Project -  
*Charles Bott, HRSD and  
Sudhir Murthy, DC Water*

B. Austria/Switzerland -  
*Bernhard Wett,  
ARAConsult*

11:30 Facilitated Discussion

12:15 - 1:15 pm Working Lunch &  
Discussion: A Survey of  
Global and National  
Nutrient Regulatory  
Approaches -  
*Dave Clark, HDR  
Engineering, Inc., and  
Peter Vanrolleghem,  
Université Laval*

1:15 Intersection of Nitrogen  
Removal and Trace  
Organics -  
*Nancy Love,  
University of Michigan*

2:00 Balancing Nutrient  
Limits with Net  
Environmental Benefits-  
*JB Neethling, HDR*

2:45 Facilitated Discussion

3:15 Break

3:30 pm Development of Algae-  
Based Nitrogen Removal  
Technologies -  
*Margie Molholland, ODU*

4:00 pm Summary Session

- Q&A for Afternoon  
Technical Sessions
- Highlights of  
Technical Sessions
- Facilitated Open  
Discussion
- Next Steps & Wrap-up

5:00 pm Adjourn